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Sep 26, 1986

DERWENT-ACC-NO: 1986-295077

DERWENT-WEEK: 198645

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TITLE: Brazing titanium (alloy) to stainless steel - involves initially applying

nickel coating then nickel-palladium alloy coating to the titanium

PATENT-ASSIGNEE:

ASSIGNEE

CODE

SEIKO EPSON CORP

SHIH

PRIORITY-DATA: 1985JP-0057957 (March 22, 1985)

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PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES MAIN-IPC

JP 61216851 A

September 26, 1986

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APPLICATION-DATA:

PUB-NO

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DESCRIPTOR

JP 61216851A

March 22, 1985

1985JP-0057957

INT-CL (IPC): B23K 1/20; G04B 37/22

ABSTRACTED-PUB-NO: JP 61216851A

BASIC-ABSTRACT:

Ni coating having a thickness of more than 0.1 micron is formed (plated) as an undercoat on the brazing surface or whole surface of the Ti or Ti alloy by wet plating, sputtering or ion plating. A Ni-Pd alloy coating which contains Pd more than 30 wt.% and has a thickness of more than 0.3 micron is plated (coated) on the Ni coating, using a similar method.

Alternatively, an Au strike and $\underline{\text{Ni-Pd}}$ alloy coating is plated on the $\underline{\text{brazinq}}$ surface or whole surface of the $\underline{\text{stainless}}$ steel to be brazed with the $\underline{\text{Ti}}$ or $\underline{\text{Ti}}$ alloy. The $\underline{\text{Ni-Pd}}$ alloy coating has a thickness of more than 0.3 micron and contains $\underline{\text{Pd}}$:more than 30 wt.%.

The brazing process is carried out on the assembly using a brazing filler metal such as an Ag alloy or Cu alloy having a m.pt. of lower than 850 deg.C.

TITLE-TERMS: <u>BRAZE TITANIUM ALLOY STAINLESS STEEL</u> INITIAL APPLY <u>NICKEL</u> COATING <u>NICKEL</u> PALLADIUM ALLOY COATING TITANIUM

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ADD INDEXING-TERMS:

ALLOY

DERWENT-CLASS: M23 P55 S04

CPI-CODES: M23-A04;

EPI-CODES: S04-A04B;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1986-127954 Non-CPI Secondary Accession Numbers: N1986-220262

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